

2003 Emission Inventory Guidelines

California Air Resources Board
Planning and Technical Support Division
September 19, 2003

What's New?

- **No Major Changes from 2002 Guidelines** – *With the exception of the timeline being updated to 2003-2004, the Guidelines are unchanged.*
- **Reporting of NH₃ Required** – *Ammonia (NH₃) emissions for large point sources should be reported to ARB to meet the requirements of the USEPA Consolidated Emissions Reporting Rule (CERR).*

What are the legal mandates that require ARB to request emissions inventory data from my District?

The state and federal legal mandates that require us to compile the statewide emission inventory include:

- State Health and Safety Code
- California Clean Air Act (CCAA) of 1988
- State Air Toxics "Hot Spots" Information and Assessment Act (AB2588) of 1988
- State Atmospheric Acidity Protection Program (AB2930) of 1988
- Federal Clean Air Act Amendments (CAAA) of 1990
- Federal Consolidated Emission Reporting Rule (CERR) of 2002

A more complete description of these mandates is available on the ARB Emission Inventory District Assistance web site.

When should my District report emissions inventory data to ARB?

You are required to report emissions data for your district within 10 months of the end of the inventory year. **The deadline for submitting your 2003 inventory year data to ARB is September 15, 2004.** We will publish your data on our web site and in our annual Almanac of Air Quality and Emissions within 13 months of the end of the inventory year (by February 2005). We will then submit your data to USEPA within 17 months of the end of the inventory year (by June 1, 2005) for the National Emission Inventory (NEI) as required by the Consolidated Emissions Reporting Rule (CERR).

What are other important inventory milestones for my District?

The table below lists the most important inventory milestones for the 2003 reporting year. District deadlines are shown in bold.

Due Date	Task	Responsibility
September 2003	Post <u>2003 Emission Inventory Guidelines</u> to ARB web site	ARB
March 2004	Create 2003 CEIDARS database	ARB
September 15, 2004	Submit point source updates and corrections to the ARB.	District
September 15, 2004	Submit area source updates grown and controlled to 2003 to the ARB.	District
October 15, 2004	Complete update of 2003 CEIDARS for submittals received as of September 15, 2004.	ARB
October 15-31, 2004	Review and QA period for the 2003 inventory	ARB/District
November 15, 2004	Freeze the 2003 inventory for publication in <u>The 2005 California Almanac of Emissions and Air Quality</u>	ARB
February 2005	Publish 2005 Almanac.	ARB
June 1, 2005	Submit 2003 inventory to U.S. EPA for the National Emission Inventory (NEI).	ARB

What data does my District need to report to ARB?

We take responsibility for estimating emissions from on-road mobile, area-wide, and biogenic (non-anthropogenic sources) and work cooperatively with you in developing emission estimates for aggregated point sources and off-road mobile sources. With the exception of on-road mobile sources, you have the option of reporting emissions for these source categories instead of using the default emissions estimates we develop. You are responsible for reporting emissions from point sources as well as those area source categories considered as district categories. Specific reporting requirements are provided below:

a. Point Sources:

- (i) **Pollutants:** You must report emissions of the following criteria pollutants: TOG, NO_x, SO_x, CO, PM, and NH₃. You have the option of reporting ROG, PM₁₀, and PM_{2.5}. If you do not provide emissions for these three pollutants, we will speciate them based upon your TOG and PM data. You must also report emissions of those toxics pollutants that are published in the Air Toxics "Hot Spots" Program Emission Inventory Criteria and Guidelines.

- (ii) **Reporting Thresholds and Frequency:** You must report on an annual basis criteria and toxics emissions for all point sources in your district that emit greater than or equal to 10 tons/year of any of the criteria pollutants listed above. NOTE: The CERR may require a lower reporting threshold depending upon the attainment status of your district. You should also report every 3 years criteria emissions for those facilities in your district that emit less than 10 tons per year. The reporting schedule and thresholds for point sources are provided below:

Source Type	Reporting Year				
	1999	2000	2001	2002	2003
Point Sources = or > 10 tons/year	X	X	X	X	X
Point Sources < 10 tons/year				X*	

* Note: We have shifted the three year reporting cycle by one year (2001 to 2002) to coordinate with the requirements of the CERR.

In addition, you should report on an annual basis the toxic emissions from the following types of facilities:

- High-risk facilities (those with a risk of 1 in a million or emitting 10 tons per year of any single hazardous air pollutant (HAP) or 25 tons per year of any combination of HAPs).
- Facilities required to report under AB2588

- (iii) **Reporting Format:** To facilitate updating of the CEIDARS database, you should report emissions using the CEIDARS 2.5 transaction format. For point sources, you should submit all tables included in the transaction format file. For facilities reporting both criteria and toxic pollutants, you should provide emissions in one merged submittal. If a facility is not in the toxic program, you do not need to report toxic emissions. Likewise, if a facility's only reason for reporting is to meet toxics reporting requirements, you do not need to report criteria emissions.

b. Area Sources:

- (i) **Pollutants:** You must report emissions of the following criteria pollutants: TOG, NO_x, SO_x, CO, PM, and NH₃. You have the option of reporting ROG, PM₁₀, and PM_{2.5}. If you do not provide emissions for these three pollutants, we will speciate them based upon your TOG and PM data. We will estimate the toxics emissions for your area source categories by speciating your criteria emissions data.
- (ii) **Reporting Thresholds and Frequency:** You should update your area sources at least every three years (see <10 tpy point source schedule above) or one third of your categories annually.

- (iii) **Reporting Format:** To facilitate updating of the CEIDARS database, you should report emissions using the CEIDARS 2.5 transaction format available on the ARB Emission Inventory District Assistance web site. For area sources, you need to submit only the “Process” and “Emission” tables included in the transaction format file.

How should my District report data to ARB?

We encourage your district to report your emission inventory data to us electronically using the CEIDARS 2.5 transaction format as it will facilitate updating of the CEIDARS database.

If your district is using CEIDARS-Lite, the software program allows you to easily generate an output file in CEIDARS transaction format. The most recent version of CEIDARS-Lite can be downloaded from the ARB website (www.arb.ca.gov/ab2588/harp/harp.htm) or a CD can be obtained by calling your CEIDARS Emission Inventory Liaison (see the ARB Emission Inventory District Assistance web site for a list of the liaisons and their contact information).

If your district is using an emission inventory database other than CEIDARS-Lite, you should convert your data into CEIDARS 2.5 transaction format and FTP the file to the ARB. Please contact your CEIDARS Liaison if you need assistance with this type of submittal.

What kind of QA process does ARB have to ensure my District’s data are correct?

ARB has a number of computerized quality assurance (QA) checks that are run to ensure the data you submit are accurate and reasonable. Following your data submittal in September, we will run these QA tests to ensure your data are valid. We will also post your data submittal to our web site for your review and correction prior to public release.

What happens if ARB doesn’t get my District’s data?

If you do not submit data or submit incomplete data for the 2003 reporting year, we will rollover data from the previous reporting year. This data will be reported on our web site, in the ARB Almanac of Air Quality and Emissions, and to the US EPA as being 2003 vintage. We encourage you to provide us with timely and complete data submittals.

What tools and assistance are available from ARB to help my District prepare and report emissions data?

We have developed a suite of publications, software packages, and training programs to assist your district in developing and submitting emissions inventory data to us.

These documents and tools are available through the ARB Emission Inventory District Assistance web site.

The HARP software program, which includes the CEIDARS-Lite emission inventory module, can be downloaded from our web site

(<http://www.arb.ca.gov/toxics/harp/harp.htm>) or a CD containing the program can be obtained by calling your CEIDARS Emission Inventory Liaison.

How will the emissions data submitted by my District be used?

We will use your emission inventory data for many different programs, including:

- Developing air quality management plans
- Determining reasonable further progress (RFP)
- Developing potential control measures
- Analyzing new source impacts
- Determining control program effectiveness
- Predicting future air quality through modeling analyses
- Determining compliance of emissions sources
- Supporting environmental justice and neighborhood level assessments
- Publication in the annual Almanac of Air Quality and Emissions

In addition, we will be submitting your emissions data on an annual basis to the US EPA for the National Emission Inventory (NEI) as required by the Consolidated Emission Reporting Rule (CERR). We will also make your data available to the public through our web site and tools such as the Community Health Air Pollution Information System (CHAPIS).